read-data-from-multiple-sources

April 18, 2025

```
[1]: import pandas as pd
```

1 Read Csv

```
[2]: CsvFile=pd.read_csv("C:\\Users\\LENOVO\\OneDrive\\Desktop\\excel␣
      ↪filws\\employees_data.csv")
     CsvFile
```

```
[2]:     id        name   position     salary  department
     0    1   Employee_1     Intern   47420.72  Operations
     1    2   Employee_2     Intern   73215.62     Finance
     2    3   Employee_3     Intern   95426.30          HR
     3    4   Employee_4  Developer   78650.79  Operations
     4    5   Employee_5     Intern   91590.36     Finance
     5    6   Employee_6  Developer   40471.25  Operations
     6    7   Employee_7    Analyst   55619.30     Finance
     7    8   Employee_8     Intern   75941.12     Finance
     8    9   Employee_9    Analyst   83982.63   Marketing
     9   10  Employee_10     Intern   91467.97          HR
     10  11  Employee_11     Intern  118460.62   Marketing
     11  12  Employee_12     Intern   39913.92          IT
     12  13  Employee_13     Intern   67328.21   Marketing
     13  14  Employee_14    Analyst  104081.27          IT
     14  15  Employee_15    Manager   68670.53          HR
     15  16  Employee_16  Developer   35559.80          HR
     16  17  Employee_17    Analyst  115671.29          HR
     17  18  Employee_18  Developer   83337.64   Marketing
     18  19  Employee_19  Developer   82864.60     Finance
     19  20  Employee_20    Manager   51274.14  Operations
     20  21  Employee_21    Analyst  116821.79          HR
     21  22  Employee_22  Developer   80072.88          IT
     22  23  Employee_23     Intern   32323.02          HR
     23  24  Employee_24  Developer   64279.95   Marketing
     24  25  Employee_25     Intern  112996.87          IT
     25  26  Employee_26    Analyst   80856.65          HR
     26  27  Employee_27  Developer  112104.80     Finance
```

```
27  28  Employee_28  Developer   45660.92  Operations
28  29  Employee_29    Analyst   54819.68          IT
29  30  Employee_30    Manager   61325.32  Operations
30  31  Employee_31    Analyst   90798.32          IT
31  32  Employee_32  Developer   37959.52     Finance
32  33  Employee_33         HR   67973.37  Operations
33  34  Employee_34         HR   86066.31          IT
34  35  Employee_35    Manager   95108.75          IT
35  36  Employee_36    Analyst   50345.60     Finance
36  37  Employee_37    Manager   49893.59  Operations
37  38  Employee_38    Analyst   65156.00          IT
38  39  Employee_39  Developer  114915.30   Marketing
39  40  Employee_40     Intern   66141.11          IT
40  41  Employee_41         HR   60769.59     Finance
41  42  Employee_42  Developer  104258.18     Finance
42  43  Employee_43    Manager   67842.42  Operations
43  44  Employee_44    Manager   95811.16     Finance
44  45  Employee_45  Developer   38725.65   Marketing
45  46  Employee_46    Analyst   43367.41          HR
46  47  Employee_47    Manager   72375.24          HR
47  48  Employee_48    Analyst   93310.47  Operations
48  49  Employee_49     Intern   65107.76  Operations
49  50  Employee_50     Intern   77274.31          IT
```

2 Read Excel file

```
[6]: ExcelFile=pd.read_excel("C:\\Users\\LENOVO\\OneDrive\\Desktop\\excel␣
     ↪filws\\Bookings-20000-Rows.xlsx",sheet_name='July')
     ExcelFile
```

```
[6]:                       Date      Time      Booking_ID       Booking_Status  \
     0      2024-07-26 14:00:00  14:00:00  CNR7153255142    Canceled by Driver
     1      2024-07-25 22:20:00  22:20:00  CNR2940424040               Success
     2      2024-07-30 19:59:00  19:59:00  CNR2982357879               Success
     3      2024-07-22 03:15:00  03:15:00  CNR2395710036  Canceled by Customer
     4      2024-07-02 09:02:00  09:02:00  CNR1797421769               Success
     ...                    ...       ...            ...                   ...
     20402  2024-07-27 19:46:00  19:46:00  CNR9637947510  Canceled by Customer
     20403  2024-07-18 05:38:00  05:38:00  CNR4070839222               Success
     20404  2024-07-25 12:38:00  12:38:00  CNR2768163393               Success
     20405  2024-07-21 07:58:00  07:58:00  CNR7143313454               Success
     20406  2024-07-17 02:53:00  02:53:00  CNR4049412680    Canceled by Driver

           Customer_ID Vehicle_Type  Pickup_Location Drop_Location  V_TAT  C_TAT  \
     0        CID713523  Prime Sedan      Tumkur Road      RT Nagar    NaN    NaN
     1        CID225428         Bike      Magadi Road       Varthur  203.0   30.0
```

```
2          CID270156     Prime SUV      Sahakar Nagar        Varthur  238.0  130.0
3          CID581320         eBike        HSR Layout     Vijayanagar    NaN    NaN
4          CID939555          Mini       Rajajinagar      Chamarajpet  252.0   80.0
...              ...           ...               ...             ...    ...    ...
20402      CID868443     Prime SUV     Richmond Town       Whitefield    NaN    NaN
20403      CID902638          Mini        HSR Layout      Tumkur Road  175.0   60.0
20404      CID214557         eBike    Electronic City          MG Road  210.0  105.0
20405      CID110375     Prime SUV          Cox Town       BTM Layout  294.0   90.0
20406      CID420033    Prime Sedan         JP Nagar      Shantinagar    NaN    NaN

                        Canceled_Rides_by_Customer  \
0                                              NaN
1                                              NaN
2                                              NaN
3      Driver is not moving towards pickup location
4                                              NaN
...                                            ...
20402                            AC is Not working
20403                                          NaN
20404                                          NaN
20405                                          NaN
20406                                          NaN


           Canceled_Rides_by_Driver Incomplete_Rides Incomplete_Rides_Reason  \
0          Personal & Car related issue             NaN                     NaN
1                               NaN              No                     NaN
2                               NaN              No                     NaN
3                               NaN             NaN                     NaN
4                               NaN              No                     NaN
...                             ...             ...                     ...
20402                           NaN             NaN                     NaN
20403                           NaN              No                     NaN
20404                           NaN              No                     NaN
20405                           NaN              No                     NaN
20406     Customer was coughing/sick             NaN                     NaN


       Booking_Value Payment_Method  Ride_Distance  Driver_Ratings  \
0                444            NaN              0             NaN
1                158           Cash             13             4.1
2                386            UPI             40             4.2
3                384            NaN              0             NaN
4                822    Credit Card             45             4.0
...              ...            ...            ...             ...
20402            303            NaN              0             NaN
20403            412           Cash             16             3.3
20404           2184           Cash             21             3.9
20405            283            UPI              6             4.2
```

20406	533	NaN	0	NaN

	Customer_Rating	Vehicle Images
0	NaN	https://cdn-icons-png.flaticon.com/128/14183/1…
1	4.0	https://cdn-icons-png.flaticon.com/128/9983/99…
2	4.8	https://cdn-icons-png.flaticon.com/128/9983/99…
3	NaN	https://cdn-icons-png.flaticon.com/128/6839/68…
4	3.0	https://cdn-icons-png.flaticon.com/128/3202/32…
…	…	…
20402	NaN	https://cdn-icons-png.flaticon.com/128/9983/99…
20403	3.6	https://cdn-icons-png.flaticon.com/128/3202/32…
20404	3.0	https://cdn-icons-png.flaticon.com/128/6839/68…
20405	4.7	https://cdn-icons-png.flaticon.com/128/9983/99…
20406	NaN	https://cdn-icons-png.flaticon.com/128/14183/1…

```
[20407 rows x 20 columns]
```

3 Read Json File

```
[7]: JsonFile=pd.read_json("C:\\Users\\LENOVO\\OneDrive\\Desktop\\practice\\tmline.
      ↪json")
     JsonFile
```

```
[7]:        name  age  salary
     0     Manish   20   20000
     1     Nikita   25   21000
     2     Pritam   16   22000
     3   Prantosh   35   25000
     4     Vikash   67   40000
```

4 Read Html Page

```
[8]: HtmlRead=pd.read_html('https://en.wikipedia.org/wiki/Minnesota')
     HtmlRead
```

```
[8]: [                                                Minnesota  \
     0                                                 State
     1                                              FlagSeal
     2    Nicknames: North Star State; Gopher State; Lan…
     3    Motto: L'Étoile du Nord (French: The Star of t…
     4                         Anthem: "Hail! Minnesota"
     5        Location of Minnesota within the United States
     6                                               Country
     7                                      Before statehood
     8                                 Admitted to the Union
```

9	Capital
10	Largest city
11	Largest county or equivalent
12	Largest metro and urban areas
13	Government
14	• Governor
15	• Lieutenant Governor
16	Legislature
17	• Upper house
18	• Lower house
19	Judiciary
20	U.S. senators
21	U.S. House delegation
22	Area
23	• Total
24	• Land
25	• Water
26	• Rank
27	Dimensions
28	• Length
29	• Width
30	Elevation
31	Highest elevation (Eagle Mountain[3][a])
32	Lowest elevation (Lake Superior[3][a][4])
33	Population (2024)
34	• Total
35	• Rank
36	• Density
37	• Rank
38	• Median household income
39	• Income rank
40	Demonym
41	Language
42	• Official language
43	• Spoken language
44	Time zone
45	• Summer (DST)
46	USPS abbreviation
47	ISO 3166 code
48	Traditional abbreviation
49	Latitude
50	Longitude
51	Website
	Minnesota.1
0	State
1	FlagSeal

Nicknames: North Star State; Gopher State; Lan…
Motto: L'Étoile du Nord (French: The Star of t…
Anthem: "Hail! Minnesota"
Location of Minnesota within the United States
United States
Minnesota Territory
May 11, 1858 (32nd State in the Union)
Saint Paul
Minneapolis
Hennepin
Minneapolis-Saint Paul
Government
Tim Walz (DFL)
Peggy Flanagan (DFL)
Legislature
Senate
House of Representatives
Minnesota Supreme Court
Amy Klobuchar (DFL) Tina Smith (DFL)
4 Democrats 4 Republicans (list)
Area
86,935.83 sq mi (225,163 km2)
79,626.74 sq mi (206,232 km2)
7,309.09 sq mi (18,930 km2) 8.40%
12th
Dimensions
about 400 mi (640 km)
200-350 mi (320-560 km)
1,200 ft (370 m)
2,301 ft (701 m)
602 ft (183 m)
Population (2024)
5,793,151[5]
22nd
68.9/sq mi (26.6/km2)
36th (2020 census)
$85,100 (2023)[6]
13th
Minnesotan
Language
none
English 88.9% Spanish Somali Hmong[7]
UTC- 06:00 (Central)
UTC- 05:00 (CDT)
MN
US-MN
Minn.

```
49                        43°30  N to 49°23  N
50                        89°29  W to 97°14  W
51                                        mn.gov   ,
            List of state symbols  \
                 Living insignia
0                            Bird
1                       Butterfly
2                            Fish
3                          Flower
4                        Mushroom
5                            Tree
6               Inanimate insignia
7                        Beverage
8                            Food
9                        Gemstone
10                          Other
11                  State quarter
12                Released in 2005
13  Lists of United States state symbols
```

```
                        Living insignia.1
0                            Common loon
1                                Monarch
2                                Walleye
3                Pink-and-white lady's slipper
4          Common morel (Morchella esculenta)
5             Norway pine[8] (Pinus resinosa)
6                       Inanimate insignia
7                                   Milk
8   Fruit: Honeycrisp appleMuffin: BlueberryMushro…
9                          Lake Superior agate
10                         Photograph: Grace
11                              State quarter
12                         Released in 2005
13            Lists of United States state symbols   ,
```

Location	July (°F)	July (°C)	January (°F)	January (°C)
0	Minneapolis	83/64	28/18	23/7	−4/−13
1	Saint Paul	83/63	28/17	23/6	−5/−14
2	Rochester	82/63	28/17	23/3	−5/−16
3	Duluth	76/55	24/13	19/1	−7/−17
4	St. Cloud	81/58	27/14	18/−1	−7/−18
5	Mankato	86/62	30/16	23/3	−5/−16
6	International Falls	77/52	25/11	15/−6	−9/−21,

```
   Largest cities or towns in Minnesota Source:[85]                    \
                      Unnamed: 0_level_1                      Rank
0                      Minneapolis Saint Paul                    1
```

```
1                   Minneapolis Saint Paul                      2
2                   Minneapolis Saint Paul                      3
3                   Minneapolis Saint Paul                      4
4                   Minneapolis Saint Paul                      5
5                   Minneapolis Saint Paul                      6
6                   Minneapolis Saint Paul                      7
7                   Minneapolis Saint Paul                      8
8                   Minneapolis Saint Paul                      9
9                   Minneapolis Saint Paul                     10
10                  Minneapolis Saint Paul  Rochester Bloomington
```

```
                                                                 \
            Name      County       Pop.      Unnamed: 5_level_1
0     Minneapolis    Hennepin   425336.0  Rochester Bloomington
1      Saint Paul      Ramsey   307193.0  Rochester Bloomington
2       Rochester     Olmsted   121465.0  Rochester Bloomington
3     Bloomington    Hennepin    89298.0  Rochester Bloomington
4          Duluth   St. Louis    86372.0  Rochester Bloomington
5   Brooklyn Park    Hennepin    84526.0  Rochester Bloomington
6        Plymouth    Hennepin    79828.0  Rochester Bloomington
7        Woodbury  Washington    76990.0  Rochester Bloomington
8       Lakeville      Dakota    72812.0  Rochester Bloomington
9          Blaine       Anoka    70935.0  Rochester Bloomington
10            NaN         NaN        NaN                    NaN
```

```
   Unnamed: 6_level_1 Unnamed: 7_level_1 Unnamed: 8_level_1 Unnamed: 9_level_1
0                 NaN                NaN                NaN                NaN
1                 NaN                NaN                NaN                NaN
2                 NaN                NaN                NaN                NaN
3                 NaN                NaN                NaN                NaN
4                 NaN                NaN                NaN                NaN
5                 NaN                NaN                NaN                NaN
6                 NaN                NaN                NaN                NaN
7                 NaN                NaN                NaN                NaN
8                 NaN                NaN                NaN                NaN
9                 NaN                NaN                NaN                NaN
10                NaN                NaN                NaN                NaN
,
                                 Census  \
0                                  1850
1                                  1860
2                                  1870
3                                  1880
4                                  1890
5                                  1900
6                                  1910
```

```
7                                    1920
8                                    1930
9                                    1940
10                                   1950
11                                   1960
12                                   1970
13                                   1980
14                                   1990
15                                   2000
16                                   2010
17                                   2020
18                              2024 (est.)
19  Source: 1910-2020[86] 2022 Estimate[5]

                                        Pop.  \
0                                       6077
1                                     172023
2                                     439706
3                                     780773
4                                    1310283
5                                    1751394
6                                    2075708
7                                    2387125
8                                    2563953
9                                    2792300
10                                   2982483
11                                   3413864
12                                   3804971
13                                   4075970
14                                   4375099
15                                   4919479
16                                   5303925
17                                   5706494
18                                   5793151
19  Source: 1910-2020[86] 2022 Estimate[5]

                                        Note  \
0                                        NaN
1                                        NaN
2                                        NaN
3                                        NaN
4                                        NaN
5                                        NaN
6                                        NaN
7                                        NaN
8                                        NaN
9                                        NaN
```

10	NaN
11	NaN
12	NaN
13	NaN
14	NaN
15	NaN
16	NaN
17	NaN
18	NaN
19	Source: 1910-2020[86] 2022 Estimate[5]

	%±
0	–
1	2,730.7%
2	155.6%
3	77.6%
4	67.8%
5	33.7%
6	18.5%
7	15.0%
8	7.4%
9	8.9%
10	6.8%
11	14.5%
12	11.5%
13	7.1%
14	7.3%
15	12.4%
16	7.8%
17	7.6%
18	1.5%
19	Source: 1910-2020[86] 2022 Estimate[5]

,

	Race	Percentage
0	White	77.5%
1	Black or African American	7.0%
2	American Indian	1.2%
3	Asian	5.3%
4	Pacific Islander	0.1%
5	Other race	3.2%
6	Two or more races	6.1%

,

	Country	Population
0	Mexico	95227
1	Somalia	76658
2	Hmong people[b]	55005
3	India	39559
4	Ethiopia	36982
5	Laos	24901

6	China	24353
7	Vietnam	22283
8	Liberia	20168
9	South Korea	20126
10	Thailand	19235
11	Canada	18804
12	Kenya	16823
13	Myanmar	15679
14	Philippines	13544
15	Russia	12787
16	El Salvador	12137
17	Nigeria	9508
18	Guatemala	7727
19	Ecuador	6298,

	Race / Ethnicity	Pop 2000	Pop 2010	Pop 2020
0	White alone (NH)	4337143	4405142	4353880
1	Black or African American alone (NH)	168813	269141	392850
2	Native American or Alaska Native alone (NH)	52009	55421	57046
3	Asian alone (NH)	141083	212996	297460
4	Pacific Islander alone (NH)	1714	1860	2621
5	Some Other Race alone (NH)	5031	5947	20963
6	Mixed Race/Multi-Racial (NH)	70304	103160	236034
7	Hispanic or Latino (any race)	143382	250258	345640
8	Total	4919979	5303925	5706494,

	Company	Employees in Minnesota \
0	Mayo Clinic	56999
1	State of Minnesota	44889
2	Target Corporation	35000
3	M Health Fairview	34673
4	HealthPartners	26300
5	Walmart	24677
6	University of Minnesota	23481
7	Allina Health	21387
8	UnitedHealth Group	19000
9	Federal government	18031
10	Minnesota State Colleges and Universities system	14539
11	Essentia Health	12606
12	CentraCare Health	11337
13	Wells Fargo	11000
14	U.S. Bancorp	11000

	Headquartered in Minnesota?
0	Yes
1	Yes
2	Yes
3	Yes
4	Yes

```
5                     No
6                     Yes
7                     Yes
8                     Yes
9                     No
10                    Yes
11                    Yes
12                    Yes
13                    No
14                    No  ,
```

Year	Republican		Democratic		Third party(ies)	
Year	No.	%	No.	%	No.	%
0	2024	1519032	46.68%	1656979	50.92%	77909	2.39%
1	2020	1484065	45.28%	1717077	52.40%	76029	2.32%
2	2016	1323232	44.93%	1367825	46.44%	254176	8.63%
3	2012	1320225	44.96%	1546167	52.65%	70169	2.39%
4	2008	1275409	43.82%	1573354	54.06%	61606	2.12%
5	2004	1346695	47.61%	1445014	51.09%	36678	1.30%
6	2000	1109659	45.50%	1168266	47.91%	160760	6.59%
7	1996	766476	34.96%	1120438	51.10%	305726	13.94%
8	1992	747841	31.85%	1020997	43.48%	579110	24.66%
9	1988	962337	45.90%	1109471	52.91%	24982	1.19%
10	1984	1032603	49.54%	1036364	49.72%	15482	0.74%
11	1980	873241	42.56%	954174	46.50%	224538	10.94%
12	1976	819395	42.02%	1070440	54.90%	60096	3.08%
13	1972	898269	51.58%	802346	46.07%	41037	2.36%
14	1968	658643	41.46%	857738	54.00%	72129	4.54%
15	1964	559624	36.00%	991117	63.76%	3721	0.24%
16	1960	757915	49.16%	779933	50.58%	4039	0.26%
17	1956	719302	53.68%	617525	46.08%	3178	0.24%
18	1952	763211	55.33%	608458	44.11%	7814	0.57%
19	1948	483617	39.89%	692966	57.16%	35643	2.94%
20	1944	527416	46.86%	589864	52.41%	8249	0.73%
21	1940	596274	47.66%	644196	51.49%	10718	0.86%
22	1936	350461	31.01%	698811	61.84%	80703	7.14%
23	1932	363959	36.29%	600806	59.91%	38078	3.80%
24	1928	560977	57.77%	396451	40.83%	13548	1.40%
25	1924	420759	51.18%	55913	6.80%	345474	42.02%
26	1920	519421	70.59%	142994	19.43%	73423	9.98%
27	1916	179544	46.35%	179152	46.25%	28668	7.40%
28	1912	64334	19.25%	106426	31.84%	163459	48.91%
29	1908	195843	59.11%	109401	33.02%	26060	7.87%
30	1904	216651	73.98%	55187	18.84%	21022	7.18%
31	1900	190461	60.21%	112901	35.69%	12949	4.09%
32	1896	193503	56.62%	139735	40.89%	8524	2.49%
33	1892	122823	45.96%	100920	37.76%	43495	16.28%
34	1888	142492	54.12%	104385	39.65%	16408	6.23%

```
35   1884      111685  58.78%      70065  36.87%       8267   4.35%
36   1880       93902  62.28%      53315  35.36%       3553   2.36%
37   1876       72955  58.80%      48587  39.16%       2533   2.04%
38   1872       55708  61.27%      35211  38.73%          0   0.00%
39   1868       43722  60.88%      28096  39.12%          0   0.00%
40   1864       25055  59.06%      17367  40.94%          0   0.00%
41   1860       22069  63.53%      11920  34.31%        748   2.15%,
                                0                                          1  \
0  Preceded byCalifornia  List of U.S. states by date of statehood Admit…


                            2
0  Succeeded byOregon   ,
     Topics related to Minnesota Land of 10,000 Lakes  \
0   vteState of MinnesotaSaint Paul (capital)Topic…
1                              vteState of Minnesota
2                                 Saint Paul (capital)
3                                             Topics
4                                            Society
..                                                 …
94                               Federal district
95                                    Territories
96                                Outlying islands
97                                  Indian country
98                        International concessions


   Topics related to Minnesota Land of 10,000 Lakes.1
0   vteState of MinnesotaSaint Paul (capital)Topic…
1                              vteState of Minnesota
2                                 Saint Paul (capital)
3   Index Outline Biking/Cycling Cities Climate (C…
4   Abortion Culture Crime Demographics Economy Ed…
..                                                 …
94                                 Washington, D.C.
95  American Samoa Guam Northern Mariana Islands P…
96  Baker Island Howland Island Jarvis Island John…
97  Federally recognized tribe Indian reservation …
98                         Guantanamo Bay Pituffik

[99 rows x 2 columns],
            vteState of Minnesota  \
0          Saint Paul (capital)
1                         Topics
2                        Society
3                        Regions
4  Largest cities pop. over 25,000
5                       Counties
6              Minnesota portal
```

```
                       vteState of Minnesota.1
0                         Saint Paul (capital)
1   Index Outline Biking/Cycling Cities Climate (C…
2   Abortion Culture Crime Demographics Economy Ed…
3   Arrowhead Boundary Waters Buffalo Ridge Centra…
4   Andover Apple Valley Austin Blaine Bloomington…
5   Aitkin Anoka Becker Beltrami Benton Big Stone …
6                             Minnesota portal   ,
             vteProtected areas of Minnesota  \
0                                      National
1                                         Parks
2                                     Monuments
3                                        Rivers
4                                 Scenic Trails
5                              Wildlife Refuges
6                   Wetland Management Districts
7                                       Forests
8                             Natural Landmarks
9                                    Wilderness
10                                        State
11                                        Parks
12                              Recreation Areas
13                                     Waysides
14                                       Forests
15                  Scientific and Natural Areas
16                                        Local
17                                        Parks
18                                        Other
19                  Minnesota Historical Society
20                               Nature centers
21                                       Hiking
22  Minnesota Department of Natural Resources

                  vteProtected areas of Minnesota.1
0   Parks Voyageurs Monuments Grand Portage Pipest…
1                                      Voyageurs
2                      Grand Portage Pipestone
3   Mississippi National River and Recreation Area…
4                            North Country Trail
5   Agassiz Big Stone Crane Meadows Glacial Ridge …
6   Big Stone Detroit Lakes Fergus Falls Litchfiel…
7                            Chippewa Superior
8   Ancient River Warren Channel Cedar Creek Ecosy…
9       Agassiz Boundary Waters Canoe Area Tamarac
10  Parks Afton Banning Bear Head Lake Beaver Cree…
11  Afton Banning Bear Head Lake Beaver Creek Vall…
```

```
12  Big Bog Cuyuna Country Garden Island Greenleaf…
13  Caribou Falls Devils Track Falls Flood Bay Ins…
14  Badoura Battleground Bear Island Beltrami Isla…
15             List of scientific and natural areas
16  Parks County and regional parks Three Rivers P…
17  County and regional parks Three Rivers Park Di…
18  Minnesota Historical Society Alexander Ramsey …
19  Alexander Ramsey House Birch Coulee Battlefiel…
20                           List of nature centers
21                            List of hiking trails
22         Minnesota Department of Natural Resources   ,
                         0  \
0                       Parks
1                   Monuments
2                      Rivers
3               Scenic Trails
4            Wildlife Refuges
5  Wetland Management Districts
6                     Forests
7            Natural Landmarks
8                  Wilderness


                                                   1
0                                          Voyageurs
1                            Grand Portage Pipestone
2  Mississippi National River and Recreation Area…
3                                North Country Trail
4  Agassiz Big Stone Crane Meadows Glacial Ridge …
5  Big Stone Detroit Lakes Fergus Falls Litchfiel…
6                                  Chippewa Superior
7  Ancient River Warren Channel Cedar Creek Ecosy…
8         Agassiz Boundary Waters Canoe Area Tamarac   ,
                         0  \
0                       Parks
1             Recreation Areas
2                     Waysides
3                      Forests
4  Scientific and Natural Areas


                                                   1
0  Afton Banning Bear Head Lake Beaver Creek Vall…
1  Big Bog Cuyuna Country Garden Island Greenleaf…
2  Caribou Falls Devils Track Falls Flood Bay Ins…
3  Badoura Battleground Bear Island Beltrami Isla…
4             List of scientific and natural areas   ,
       0                                             1
0  Parks  County and regional parks Three Rivers Park Di…,
```

```
                                0  \
0  Minnesota Historical Society
1               Nature centers
2                       Hiking


                                                                1
0  Alexander Ramsey House Birch Coulee Battlefiel…
1                             List of nature centers
2                              List of hiking trails  ,
  vteMidwestern United States  \
0                 Topics
1              Subregions
2                  States
3             Major cities
4           State capitals


                     vteMidwestern United States.1
0  Culture Geography Economy Government and polit…
1  Northern Midwest East North Central states Wes…
2  Ohio Indiana Michigan Illinois Missouri Iowa W…
3  Chicago Detroit Minneapolis St. Paul St. Louis…
4  Columbus Indianapolis Lansing Springfield Jeff…  ,
        vteNew France                              vteNew France.1
0                History  French colonization of the Americas French col…
1                Colonies  Acadia (1604-1713) Canada (1608-1763) Terre-Ne…
2   Towns and  villages  Acadie Port Royal Canada Quebec City Trois-Riv…
3                  Forts  List of French forts in North America Fort Rou…
4            Governments  Canada Governor General Intendant Sovereign Co…
5                   Laws  Custom of Paris in New France Seigneurial syst…
6                Economy  Chemin du Roy Fur trade Coureur des bois Voyag…
7                Society  Population 1666 census Habitants Canadiens Kin…
8     Missionary groups  Jesuit missions Récollets Grey Nuns Ursulines …
9                   Wars  Military of New France Military history of the…
10             Category                                      Category,
                  vteNew Spain (1521-1821)  \
0                                    Conflicts
1   Spanish conquest of the Aztec Empire → Spanish…
2   Conflicts with indigenous peoples during colon…
3         Central government and  administration
4                              Habsburg Spain
5                               Bourbon Spain
6                      Viceroys of New Spain
7                                   Audiencias
8                           Captancies General
9                                   Intendancy
10                                     Politics
11                                     Treaties
```

```
12                 Notable cities, provinces, and territories
13                                                      Cities
14                               Provinces and territories
15                                                 Other areas
16                   Explorers, adventurers and conquistadors
17                                  Pre-New Spain explorers
18                               Explorers and conquistadors
19                               Catholic Church in New Spain
20                             Spanish missions in the Americas
21                       Friars, fathers, priests, and bishops
22                                                Other events
23                                          Society and culture
24                                          Indigenous peoples
25                                               Mesoamerican
26                                                   Caribbean
27                                                  California
28                               Oasisamerica (Southwest US)
29                                                Aridoamerica
30                                            Southern Plains
31                                      Southeastern Woodlands
32                                                   Filipinos
33                                                      Others
34                                               Architecture
35                                          Trade and economy
36                                          People and classes
37                                                      People
38                                                    Category


                        vteNew Spain (1521-1821).1
0    Spanish conquest of the Aztec Empire → Spanish…
1    Spanish conquest of the Aztec Empire → Spanish…
2    Mixtón War → Yaqui Wars → Chichimeca War → Phi…
3    Habsburg Spain Charles I Joanna of Castile Phi…
4    Charles I Joanna of Castile Philip II Philp II…
5    Philip V (also reigned after Louis I) Louis I …
6                       List of viceroys of New Spain
7    Guadalajara Captaincy General of Guatemala Man…
8    Cuba Guatemala Philippines Puerto Rico Santo D…
9    Havana New Orleans State of Mexico Chiapas Com…
10   Viceroy Gobernaciones Adelantado Captain gener…
11   Treaty of Tordesillas Treaty of Zaragoza Peace…
12   Cities Mexico City Veracruz Xalapa Puebla Tolu…
13   Mexico City Veracruz Xalapa Puebla Toluca Cuer…
14   Louisiana La Florida (Florida) Las Californias…
15                                     Spanish Formosa
16   Pre-New Spain explorers Christopher Columbus F…
17   Christopher Columbus Ferdinand Magellan Juan S…
```

```
18  Hernán Cortés Juan Ponce de León Nuño de Guzmá…
19  Spanish missions in the Americas Spanish missi…
20  Spanish missions in Arizona Spanish missions i…
21  Pedro de Gante Gerónimo de Aguilar Toribio de …
22  Our Lady of Guadalupe Suppression of the Jesui…
23  Indigenous peoplesMesoamerican Aztecs Maya Hua…
24  Mesoamerican Aztecs Maya Huastec Mixtec P'urhé…
25  Aztecs Maya Huastec Mixtec P'urhépecha Totonac…
26                          Arawak Ciboney Guanahatabey
27  Mission Indians Cahuilla Chumash Cupeño Juaneñ…
28  Akimel O'odham Apache Hopi Hualapai Navajo Pue…
29  Acaxee Chichimeca Coahuiltecan Cochimí Cocopah…
30  Caddo Comanche Lipan Apache Plains Apache Tonk…
31  Indigenous people during De Soto's travels Apa…
32  Negrito Igorot Mangyan Peoples of Palawan Ati …
33      Taiwanese indigenous peoples Chamorro people
34  Spanish Colonial style by country Colonial Bar…
35  Real Columbian exchange Manila galleon Triangu…
36  Casta Peninsulares Criollo Indios Mestizo Cast…
37  Juan Bautista de Anza Juan Rodríguez Cabrillo …
38                                      Category  ,
                                             0  \
0  Spanish conquest of the Aztec Empire → Spanish…
1  Conflicts with indigenous peoples during colon…


                                             1
0  Spanish conquest of the Aztec Empire → Spanish…
1  Mixtón War → Yaqui Wars → Chichimeca War → Phi…  ,
                     0                                                1
0         Habsburg Spain  Charles I Joanna of Castile Philip II Philp II…
1          Bourbon Spain  Philip V (also reigned after Louis I) Louis I …
2  Viceroys of New Spain                     List of viceroys of New Spain
3             Audiencias  Guadalajara Captaincy General of Guatemala Man…
4     Captancies General  Cuba Guatemala Philippines Puerto Rico Santo D…
5             Intendancy  Havana New Orleans State of Mexico Chiapas Com…
6                Politics  Viceroy Gobernaciones Adelantado Captain gener…
7                Treaties  Treaty of Tordesillas Treaty of Zaragoza Peace…,
                         0  \
0                   Cities
1  Provinces and territories
2              Other areas


                                             1
0  Mexico City Veracruz Xalapa Puebla Toluca Cuer…
1  Louisiana La Florida (Florida) Las Californias…
2                               Spanish Formosa  ,
                      0  \
```

```
0      Pre-New Spain explorers
1  Explorers and conquistadors


                                                       1
0  Christopher Columbus Ferdinand Magellan Juan S…
1  Hernán Cortés Juan Ponce de León Nuño de Guzmá…   ,
                                    0  \
0       Spanish missions in the Americas
1  Friars, fathers, priests, and bishops
2                            Other events


                                                   1
0  Spanish missions in Arizona Spanish missions i…
1  Pedro de Gante Gerónimo de Aguilar Toribio de …
2  Our Lady of Guadalupe Suppression of the Jesui…   ,
                              0  \
0             Indigenous peoples
1                   Mesoamerican
2                      Caribbean
3                     California
4     Oasisamerica (Southwest US)
5                   Aridoamerica
6                Southern Plains
7          Southeastern Woodlands
8                      Filipinos
9                         Others
10                  Architecture
11             Trade and economy
12             People and classes
13                        People


                                                   1
0   Mesoamerican Aztecs Maya Huastec Mixtec P'urhé…
1   Aztecs Maya Huastec Mixtec P'urhépecha Totonac…
2                      Arawak Ciboney Guanahatabey
3   Mission Indians Cahuilla Chumash Cupeño Juaneñ…
4   Akimel O'odham Apache Hopi Hualapai Navajo Pue…
5   Acaxee Chichimeca Coahuiltecan Cochimí Cocopah…
6   Caddo Comanche Lipan Apache Plains Apache Tonk…
7   Indigenous people during De Soto's travels Apa…
8   Negrito Igorot Mangyan Peoples of Palawan Ati …
9       Taiwanese indigenous peoples Chamorro people
10  Spanish Colonial style by country Colonial Bar…
11  Real Columbian exchange Manila galleon Triangu…
12  Casta Peninsulares Criollo Indios Mestizo Cast…
13  Juan Bautista de Anza Juan Rodríguez Cabrillo …   ,
                              0  \
```

```
0                   Mesoamerican
1                      Caribbean
2                     California
3     Oasisamerica (Southwest US)
4                    Aridoamerica
5                 Southern Plains
6           Southeastern Woodlands
7                       Filipinos
8                          Others

                                                   1
0   Aztecs Maya Huastec Mixtec P'urhépecha Totonac…
1                         Arawak Ciboney Guanahatabey
2   Mission Indians Cahuilla Chumash Cupeño Juaneñ…
3   Akimel O'odham Apache Hopi Hualapai Navajo Pue…
4   Acaxee Chichimeca Coahuiltecan Cochimí Cocopah…
5   Caddo Comanche Lipan Apache Plains Apache Tonk…
6   Indigenous people during De Soto's travels Apa…
7   Negrito Igorot Mangyan Peoples of Palawan Ati …
8         Taiwanese indigenous peoples Chamorro people   ,
  vtePolitical divisions of the United States  \
0             List of states and territories
1                                      States
2                            Federal district
3                                  Territories
4                             Outlying islands
5                               Indian country
6                   International concessions

          vtePolitical divisions of the United States.1
0                      List of states and territories
1   Alabama Alaska Arizona Arkansas California Col…
2                                  Washington, D.C.
3   American Samoa Guam Northern Mariana Islands P…
4   Baker Island Howland Island Jarvis Island John…
5   Federally recognized tribe Indian reservation …
6                        Guantanamo Bay Pituffik   ,
  Authority control databases  \
0             International
1                  National
2                Geographic
3                 Academics
4                     Other

                 Authority control databases.1
0                         ISNIVIAFFASTWorldCat
1   GermanyUnited StatesFranceBnF dataCzech Republ…
```

```
         2                                          MusicBrainz area
         3                                                    CiNii
         4                                           IdRefNARA  ]
```

5 Read mysql Database

```python
[9]: import mysql.connector
     print("  MySQL Connector is working!")
```

```
  MySQL Connector is working!
```

```python
[10]: conn = mysql.connector.connect(
          host="localhost",
          user="root",
          password="rootaman",
          database="tfq"
      )


      query="select * from details"


      sql_read=pd.read_sql(query,conn)
      sql_read
```

```
C:\Users\LENOVO\AppData\Local\Temp\ipykernel_14820\1549093148.py:10:
UserWarning: pandas only supports SQLAlchemy connectable (engine/connection) or
database string URI or sqlite3 DBAPI2 connection. Other DBAPI2 objects are not
tested. Please consider using SQLAlchemy.
  sql_read=pd.read_sql(query,conn)
```

```
[10]:    EMPNAME        DEPT    CONTACTNO        CITY
      0   VISHAL       SALES   9193458625    GAZIABAD
      1    VIPIN     MANAGER   7352158944    BAREILLY
      2    ROHIT          IT   7830246946      KANPUR
      3    RAHUL   MARKETING   9635688441      MEERUT
      4   SANJAY       SALES   9149335694   MORADABAD
      5    VIPIN     MANAGER   7352158944    BAREILLY
      6   VISHAL       SALES   9193458625    GAZIABAD
      7     AMAN          IT  78359941265      RAMPUR
      8     ANSH       SALES   6554322456      MEERUT
```

```python
[11]: !pip install SQLAlchemy
```

```
Requirement already satisfied: SQLAlchemy in c:\users\lenovo\anaconda3\lib\site-
packages (2.0.34)
Requirement already satisfied: typing-extensions>=4.6.0 in
c:\users\lenovo\anaconda3\lib\site-packages (from SQLAlchemy) (4.11.0)
```

```
Requirement already satisfied: greenlet!=0.4.17 in
c:\users\lenovo\anaconda3\lib\site-packages (from SQLAlchemy) (3.0.1)
```

[12]:
```python
from sqlalchemy import create_engine
```

[13]:
```python
connEngine=create_engine('mysql+mysqlconnector://root:rootaman@localhost/tfq')
sql_read1=pd.read_sql(query,connEngine)
sql_read1
```

[13]:
```
    EMPNAME       DEPT    CONTACTNO        CITY
0    VISHAL      SALES   9193458625    GAZIABAD
1     VIPIN    MANAGER   7352158944    BAREILLY
2     ROHIT         IT   7830246946      KANPUR
3     RAHUL  MARKETING   9635688441      MEERUT
4    SANJAY      SALES   9149335694   MORADABAD
5     VIPIN    MANAGER   7352158944    BAREILLY
6    VISHAL      SALES   9193458625    GAZIABAD
7      AMAN         IT  78359941265      RAMPUR
8      ANSH      SALES   6554322456      MEERUT
```

6 Read from MS SQL

[20]:
```python
import pyodbc
import pandas as pd

# Connection string – update with your server info
conn = pyodbc.connect(
    "DRIVER={ODBC Driver 17 for SQL Server};"
    "SERVER=LAPTOP-OKFEONN4;"  # or 'SERVER_NAME\INSTANCE'
    "DATABASE=Trigger_db;"
    "Trusted_Connection=yes;"
)

# Query
query = "SELECT * FROM sale"

# Load into DataFrame
dff1 = pd.read_sql(query, conn)

# Show result
print(dff1.head())
```

```
   ProductID ProductName SaleQuarter  SalesAmount
0          1      Laptop          Q1       1500.0
1          2    Keyboard          Q1         75.0
2          3       Mouse          Q1         30.0
```

```
3        1     Laptop        Q2       1600.0
4        2    Keyboard       Q2         80.0
```

C:\Users\LENOVO\AppData\Local\Temp\ipykernel_14820\3237795681.py:16:
UserWarning: pandas only supports SQLAlchemy connectable (engine/connection) or
database string URI or sqlite3 DBAPI2 connection. Other DBAPI2 objects are not
tested. Please consider using SQLAlchemy.
  dff1 = pd.read_sql(query, conn)

7 Read Parquet

```python
[14]: filepath="C:\\Users\\LENOVO\\OneDrive\\Desktop\\practice\\userdata1.parquet"
```

```python
[15]: df1 = pd.read_parquet(filepath, engine='pyarrow')
      df1
```

```
[15]:     registration_dttm    id first_name last_name                      email  \
      0    2016-02-03 07:55:29    1     Amanda    Jordan          ajordan0@com.com
      1    2016-02-03 17:04:03    2     Albert   Freeman          afreeman1@is.gd
      2    2016-02-03 01:09:31    3     Evelyn    Morgan   emorgan2@altervista.org
      3    2016-02-03 00:36:21    4     Denise     Riley          driley3@gmpg.org
      4    2016-02-03 05:05:31    5     Carlos     Burns  cburns4@miitbeian.gov.cn
      ..                   …    …         …         …                          …
      995  2016-02-03 10:30:59  996     Dennis    Harris        dharrisrn@eepurl.com
      996  2016-02-03 17:16:53  997     Gloria  Hamilton    ghamiltonro@rambler.ru
      997  2016-02-03 05:02:20  998      Nancy    Morris          nmorrisrp@ask.com
      998  2016-02-03 02:41:32  999      Annie   Daniels    adanielsrq@squidoo.com
      999  2016-02-03 09:52:18 1000      Julie     Meyer        jmeyerrr@flavors.me

           gender       ip_address                cc       country  birthdate  \
      0    Female        1.197.201.2  6759521864920116     Indonesia   3/8/1971
      1      Male     218.111.175.34                          Canada  1/16/1968
      2    Female       7.161.136.94  6767119071901597        Russia   2/1/1960
      3    Female      140.35.109.83  3576031598965625         China   4/8/1997
      4               169.113.235.40  5602256255204850  South Africa
      ..       …                  …                …             …          …
      995    Male    178.180.111.236   374288806662929        Greece   7/8/1965
      996  Female       71.50.39.137                           China  4/22/1975
      997             6.188.121.221  3553564071014997        Sweden   5/1/1979
      998  Female      97.221.132.35     30424803513734         China  10/9/1991
      999  Female      217.1.147.132   374288099198540         China

              salary                 title comments
      0     49756.53        Internal Auditor    1E+02
      1    150280.17           Accountant IV
      2    144972.51     Structural Engineer
      3     90263.05  Senior Cost Accountant
```

```
4          NaN
..          …                              …          …
995  263399.54                      Editor
996   83183.54    VP Product Management
997          NaN          Junior Executive
998   18433.85                      Editor
999  222561.13

[1000 rows x 13 columns]
```

8 Text Files (Custom Delimiters)

```
[16]: pipedeli=pd.read_csv("C:
      ↪\\Users\\LENOVO\\OneDrive\\Desktop\\practice\\pipedelimited.
      ↪txt",delimiter='|')
      pipedeli
```

```
[16]:    id            name  age                         email                 city
      0   1    Brandon Rice   27      brandonrice@example.com              Newport
      1   2   Tiffany Lopez   42  tiffany.lopez88@example.org        Port Ericstad
      2   3    James Rivera   33     james.rivera@example.com        Lake Ericaberg
      3   4  Angela Griffin   55    angela.griffin@example.net       Mckenziechester
      4   5  Jonathan Hall    24   jonathan.hall@example.com            South Mark
```

9 Read clipboard

```
[17]: cp=pd.read_clipboard()
      cp
```

```
[17]:    id            name  age                         email                 city
      0   1    Brandon Rice   27      brandonrice@example.com              Newport
      1   2   Tiffany Lopez   42  tiffany.lopez88@example.org        Port Ericstad
      2   3    James Rivera   33     james.rivera@example.com        Lake Ericaberg
      3   4  Angela Griffin   55    angela.griffin@example.net       Mckenziechester
      4   5  Jonathan Hall    24   jonathan.hall@example.com            South Mark
```

```
[ ]:
```